NOTIFICATION.

No. L.S. 2937—L.W. 102-52-4, dated Bangalore, 27th August 1952.

The following draft of Boiler Attendants' Rules and Economiser Inspection Administrative Rules, which it is proposed to make in exercise of the powers conferred by Section 29 of the Indian Boilers Act, 1923 (V of 1923), are hereby published for the information of all persons likely to be affected thereby, as required by Section 31 of the said Act.

Notice is hereby given that the said draft will be taken into consideration on or after the 15th October 1952.

Objections or suggestions to the draft rules sent to the Secretary to Government, Law Department, through the Commissioner of Labour and Chief Inspector of Factories and Boilers in Mysore Bangalore, before the said date, will be considered by the State Government.

DRAFT BOILER ATTENDANTS' RULES.

Rules under Section 29 (d) of the Indian Boiler Act, 1923 (V of 1923).

I PRELIMINARY.

I (1) These rules may be called the Boiler Attendants' Rules, 1952. Short title commencement and definition.

(2) (*a*) They shall come into force on the.....

(*b*) The Mysore Boiler Rules, 1930—Rule 10-26 relating to examination for certificates of competency examination for certificates of service and cancellation or suspension of certificates after enquiry shall as from the commencement of these Rules, cease to have effect except in regard to things done or to be done before such commencement.

(3) In these Rules, unless the context otherwise requires.....

(*a*) "the Act" means the Indian Boiler Act, 1923 (V of 1923).

(*b*) "section" means a section of the Act.

(*c*) every reference in these rules to a boiler or boilers shall be deemed to include also a reference to an economiser or economisers, respectively.

II GENERAL.

2. The owner of a boiler shall not use it or permit it to be used unless it is placed under the direct and immediate charge of a fit and proper person as required by rule 3.

Boiler to be incharge of person holding a boiler attendants' certificate.

Provided that the State Government may, by notification in the Official Gazette, exempt any boiler or classes or types of boilers from the operation of this rule.

Provided further, that nothing in these rules shall debar a person from holding a certificate of competency, as an attendant granted under the Mysore Boiler Rules, 1930 from remaining in attendance and in charge of a boiler or boilers to the extent of his qualifications indicated in such certificate.

Competent person must possess certificate; extent of qualification.

3. No person who does not possess a certificate of competency as an attendant under these rules shall be deemed a fit and proper person to hold charge of a boiler and no holder of any such certificate shall be deemed a fit and proper person to be in attendance and in charge of a boiler except to the extent of his qualification indicated in such certificate.

Holders to produce the same certificate when called for by any authorised person.

4. The holder of a certificate or a provisional order under these rules shall, at all reasonable times during the period any boiler is in his charge, be bound to produce such certificate when called upon to do so by any of the persons empowered under Section 15 to call for the production of the certificate or provisional order authorising the use of the boiler.

Owner to furnish Chief Inspector with particulars of certificates.

5. (1) The owner of any boiler or battery of boilers who engages any person to be in charge thereof, shall within seven days of such engagement furnish the Chief Inspector with full particulars of such person including the grade, serial number, date and place of issue of his certificate.

(2) The owner of any boiler who engages any person to hold charge of such boiler shall, in the event of such person leaving his employment or in the event of the death of such person, report the fact forthwith to the

Chief Inspector and shall send along with the report the certificate granted under these rules to such person if the same is deposited with him.

Provided that where the person so engaged to hold charge of the boiler leaves the employment after due notice, the owner shall return the certificate to such person instead of sending it to the Chief Inspector.

Limits of daily period of attendance reliefs allowed and sphere of action.

6. (*a*) An attendant in charge of a boiler for which a certificate of competency as an attendant of the first class is required may be relieved of charge by a person holding a certificate of the second class, in any one day for not more than two periods, the total of which does not exceed two hours.

(*b*) The holder of a first class certificate may, with the consent in writing of the Chief Inspector be relieved by a person holding a certificate of the second class for a period which may extend to seven consecutive days which, in special circumstances, the Chief Inspector may extend to any length of time not exceeding 30 days at a time.

(*c*) A person in charge of a boiler shall be deemed to be in direct and immediate attendance and charge of the same when he is within 150 feet of such boiler.

When boiler deemed to be in use.

7. (*a*) A boiler shall be deemed to be in use for the purpose of these rules when there is active fire in the furnace, firebox or fire place for the purpose of heating the water in the boiler. A boiler shall be deemed to be not in use only when the fire is removed and all steam and water connections are closed.

(*b*) An economiser shall be deemed to be in use for the purpose of these rules, when there is a flow of flue gases past the economiser and an appreciable heat transfer between the water and the heating gases.

III Board of Examiners.

Constitution of the board of examiners.

8. (1) A Board of Examiners shall be constituted for Mysore consisting of the Chief Inspector, an Inspector nominated by the Chief Inspector and not less than two other members having theoretical and practical knowledge of prime movers and modern boiler practice to be appointed by the State Government from time to time.

(2) The Chief Inspector or any other person appointed by Government shall be the *ex-officio* Chairman and the Inspector nominated by the Chief Inspector shall be the *ex-officio* Secretary to the Board of Examiner.

Term of office of the members.

9. The term of office of each of the members other than the *ex-officio* members of the Board of Examiners shall be three years. If a member leaves the State of Mysore or is absent therefrom for a period of more than six months, he shall be deemed to have vacated his seat on the Board and another person may be appointed in his place for the unexpired portion of his term.

Function of the board.

10. The Board of examiner shall:—

(i) Conduct examination of candidates for the grant of certificates of competency as a boiler attendant.

(ii) Grant certificates of competency as a boiler attendant.

(iii) Consider the reports of enquiries into allegations of drunkenness, negligence or misconduct on the part of boiler attendants holding certificates of competency granted under these rules and take such action as they may consider necessary.

Meeting of the board.

11. The Board of Examiners shall meet as often as may in the opinion of the Chairman be necessary for transacting business which cannot be disposed of by circulation of papers. At least fifteen clear days' notice of a meeting shall be sent to each member.

Quorum.

12. Three members including the chairman, actually present at a meeting shall form a quorum.

Chairman of the board.

13. The Chairman shall preside over all meetings of the Board of Examiners and in his absence, a member chosen by the members present at the meeting shall preside over the meeting.

Secretary of the board.

14. The Secretary of the Board of Examiners shall maintain a register of boiler attendants holding certificates of competency and shall perform such other functions as are specified in these rules or as the Chairman of the Board of Examiners may direct.

Board's endorsement on application.

15. The Board of Examiners shall endorse on the printed application form of each candidate the result of his examination for a certificate of competency as a boiler attendant. The endorsed application shall be returned to the Secretary to the Board.

Board empowered to refuse issue of certificate.

16. The Board Examiners shall have power to refuse the issue of certificate of competency as a boiler attendant to any candidate who in the opinion of the majority of the members appears too old or physically unfit through

formity, constitutional weakness, defective eyesight, ...fness or loss of a limb to perform efficiently the duties ... a boiler attendant.

Any candidate who has been refused such certificate may be asked to produce a certificate of fitness from a Registered Medical Practitioner. If however the candidate produces a certificate of physical fitness the board shall issue a certificate.

17. Each member of the Board of Examiners shall be entitled to receive fees for examining candidates under these rules and the rate of fees shall be determined by the State Government.

IV. Examination.

Examination.

18. Examinations for the grant of certificates of competency as a Boiler Attendant to remain in charge of boilers shall be held by the Board of Examiners at such place and on such dates as may be notified by the Secretary of the Board from time to time in the Official Gazette.

19. Examination for granting certificates of competency as a Boiler Attendant shall be of two kinds *viz.* one for the award of First class certificate of competency as a Boiler Attendant and the other for the award of second class certificate of competency as a Boiler Attendant.

Postponement of Examination.

20. When a date fixed for the examination is declared a gazetted holiday or when for any unforeseen reason an examination cannot be held on the date fixed, the Chairman may fix some other day for holding the examination and the same shall be duly notified to the candidates for examination.

V. Certificate of Competency.

Classes of Certificates and capabilities of holders thereof.

21. Except as otherwise provided in these rules a Certificate of competency granted thereunder shall be of two classes. The certificate of the First Class shall qualify holder thereof to be in charge of a single boiler of any type or capacity or two or more boilers in a battery or of so many separate individual boilers, the total heating surface of which does not exceed 7,500 Sq. ft., provided that such boilers shall be situated within a radius of 75 ft. in the same premises and belong to one owner.

A certificate of Second Class shall qualify the hold[illegible] thereof to be in charge of a single boiler of any kind, [illegible] heating surface of which does not exceed 1,500 sq. ft. A Second Class Boiler Attendant may, however, attend to a battery of boilers (not consisting of more than three connected boilers and not exceeding 1,500 Sq. ft. in the aggregate of total heating surface) provided he is assisted by the number of firemen considered necessary by the Chief Inspector of Boilers.

Exchange Certificate.

22. A person holding a certificate of competency as an Attendant granted by a Board of Examiners under the corresponding Rules in any other State shall on application, have the certificate endorsed for validity in the State of Mysore. Such endorsement shall be made by the Chairman of the Board of Examiners constituted under these Rules.

23. (1) Candidates for examination for certificate of competency shall pay the following fees which shall not except as otherwise provided in these rules be returnable:

		Rs.
Examination for 1st Class Certificate	...	15
Examination for 2nd Class Certificate	...	10
Duplicate Certificate	....	10

(2) All fees for examination for certificate of competency as an Attendant leviable under these rules shall be paid in such manner as the State Government may direct.

Refund of Fees.

24. Candidates once admitted to an examination under these rules shall not be entitled to any refund of fees. Where a candidate is unavoidably absent from the Examination on the date fixed, the Chairman of the Board of Examiners may allow him to appear without payment of a second fee at the next examination.

Fees of candidates found ineligible.

25. A candidate who has paid the examination fee that is found ineligible for an examination may apply within one year from the date of payment, for a refund of the fee, or he may be allowed to appear without payment of second fee at any subsequent examination held within one year from the date of payment of the fee; provided that he becomes eligible to sit for such subsequent examination.

VI. Application for Examination.

Form of Application.

26. Every application for examination shall be in Form A appended to these rules. The applicant shall fill in such parts of the Form as are to be filled in by a candidate and shall sign the form in the presence of a Gazetted Officer or an Honorary Magistrate who shall attest his signature. The application so filled in shall be forwarded to the office of the Chairman of the Board of Examiners not later than one month before the date fixed for the examination and shall be accompanied by—

(*a*) originals and one copy each of all testimonials of both practical and theoretical experience of the candidate,

(*b*) testimonials of good character from his employer,

(*c*) a Treasury Chellan in support of payment of the fee specified in these rules for the examination at which the applicant wishes to appear,

(*d*) any certificate granted to the applicant under these rules or a certificate granted by a competent authority referred to in Rule 22, and

(*e*) two copies of recent of bust photographs (size $2'' \times 2\frac{1}{4}''$) one of which shall bear the signature or the thumb impression of the applicant on the back.

Candidate to produce satisfactory testimoninals.

27. No candidate shall be admitted to examination who cannot produce satisfactory testimonials certifying his experience, ability, sobriety and general good conduct for the whole period of his qualifying service. Any breaks in the period of qualifying service shall be accounted for.

Essential Statements.

28. A testimonial shall clearly state the capaicity in which the candidate was employed, whether as Boiler Attendant, Head fireman, Donkeyman or fireman and the periods of such employment stating the dates between which the candidate was so employed.

Signature and Counter-signature.

29. A testimonial shall be signed by a responsible person by whom the candidate was employed and be countersigned by the Owner, Agent, Manager or Secretary of the Mill, Factory or Workshop or by such other persons as the State Government may specify in this behalf.

Public Works Department Service.

30. A testimonial of service of boilers belonging to the Public Works Department or Local Bodies, shall be signed by a responsible officer under whom the candidate

has directly served and countersigned by the head of the department concerned.

Doubtful Testimonials.

31. If the Secretary to the Board of examiners has reason to doubt the truth of any statement made in any application or testimonials, he may make such inquiries as he thinks fit to verify the same.

False Testimonials.

32. (1) If on inquiry the Secretary is satisfied that any testimonial submitted by a candidate is false in any material particular, he shall submit his findings to the Chairman of Board of Examiners who may by a written order debar such candidate from being admitted to any subsequent examination held under these rules. If, on the strength of any such testimonial, a candidate has already been admitted to an examination, he shall be deemed to have failed in such examination and any certificate granted to him as a result of his having been declared to have passed such examination, shall be forthwith recalled and be cancelled by a notification in the Official Gazette provided that before any Certificate is cancelled under this rule, the holder thereof shall be given a reasonable opportunity of being heard in the matter.

Filing of copies and return of original testimonials.

33. Applications and copies of testimonials submitted by candidates shall be filled in the office of the Chairman of the Board of Examiners. Original testimonials shall be returned to the candidates after the close of the examination.

VII. Age and Training.

Age and Training of Second Class.

34. A candidate for a certificate of competency as a Boiler Attendant of the second class shall not be less than 21 years of age and shall not be admitted to the examination unless he proves to the satisfaction of the Board of Examiners that he—

(*a*) has served for not less than three years in the capacity of a fireman or an assistant fireman on a steam boiler or a combined steam engine and boiler; or

(*b*) has served for not less than three years as an engine fitter where boilers and engines are repaired or made and worked under steam, one year at least of which he should have worked as an assistant fireman; or

(*c*) produces from the head of an industrial or technical institution a certificate stating that he has completed a three years' course of training, one year of

which must have been as an apprentice in a steam power plant of a mill or factory or an engineering workshop for the maintenance of boilers.

Age and Training of First Class Candidates.

35. A candidate for a certificate of competency as a boiler attendant of the first class shall not be less than twenty-one years of age and shall not be admitted to the examination unless he possesses a certificate of the second class and in addition thereto—

(*a*) has served for not less than two years as a boiler attendant with second class certificate of competency in sole working charge of a boiler whose rated heating surface is not less than 500 sq. ft. or

(*b*) produces from the head of an industrial or technical institution a certificate stating that he has completed a three years' course of training, one year of which must have been as an apprentice in a steam power plant of a mill or factory or an engineering workshop where engines and boilers are repaired or made and in addition has served for not less than two years in sole working charge of a boiler of not less than 500 sq. ft. of heating surface with a second class Boiler Attendants' Certificate.

Service not in strict conformity with rules.

36. Notwithstanding anything to the contrary contained in rules 35 and 36, the State Government may empower the Chairman, Board of Examiners, *to admit in his discretion* any candidate to an examination under those rules, if he so thinks fit.

VIII. Examination Subjects.

Second Class Boiler Attendants.

37. A candidate, in order to be qualified for a certificate of competency of the second class, shall *inter alia* satisfy the examiners that—

(*a*) he clearly understands—

(i) the working and management of a steam boiler and economiser;

(ii) the use and purpose of the various valves, cocks, mountings and fittings;

(iii) the precautions to be taken and procedure to be observed before starting fires and when raising steam;

(iv) the use of a foot pump and injector;

(v) the reading of the pressure gauge;

(vi) the need for periodical cleaning and pure water supply and for prevention of scale or other deposits on heating surfaces;

(vii) the need for periodical inspection of boilers and the manner in which they should be prepared for thorough inspection, hydraulic test and steam test;

(viii) the precautions to be taken before entering or allowing any person to enter a boiler that is connected to another boiler under steam;

(ix) the use of the best means of firing for the prevention of smoke;

(x) the danger of water lodging in steam pipes and the precautions to be observed in draining;

(xi) the procedure to be followed in the event of shortage of water, bulging or fracture of furnaces or flat plates or bursting of tubes or of any accident to a boiler or steam pipe;

(xii) precautions to be taken when starting an economiser to work after a period of rest;

(xiii) procedure to be adopted in bringing an economiser into commission and also to putting it out of commission while the boiler is on steam; and that

(*b*) he is able, *inter alia*—

(i) to stoke a boiler including cleaning and banking fires in a workmanlike manner;

(ii) to show how avoidable smoke may be prevented;

(iii) to blow through and test the correctness of water-gauge glasses and test cocks;

(iv) to replace a gauge glass and show how a false water level might be shown;

(v) to ease a safety valve and use a blow down cock or valve;

(vi) to adjust a high steam and low water safety valve and renew a fusible plug;

(vii) to pack pump or valve chest glands;

(viii) to grind and adjust cocks and valves;

(ix) to take a feed pump or injector to pieces and replace in working order;

(x) to handle the appliances provided for keeping the economisers clean.

38. A candidate in order to be qualified for a certificate of competency of the first class, shall satisfy the examiners that in addition to the subjects specified for candidates for certificate of competency of the second class, he has at least a rudimentary knowledge of the principal elementary facts relating to combustion, heat and steam; and that he is able to explain *inter alia*— First Class Boiler Attendant.

(i) the principal causes and effects of corrosion and incrustation and the usual remedies employed;

(ii) the object of the use of water softeners;

(iii) the principles on which feed pumps and injectors work;

(iv) the principles on which appliances for the prevention of smoke work;

(v) the purpose of super-heaters, economisers, feed heaters, feed filters, forced and induced draft appliances and mechanical stokers.

IX. Mode of Examination.

39. The examination shall be conducted orally, but any candidate may, if he desires, write his answers to such written questions as may be given to him by the examiners. Examination in writing optional.

40. If the Board of Examiners consider necessary, the examination may be held either in a factory or mill or in a workshop in which boilers are used or partly in such factory, mill or workshop and partly in the examination room where models and sketches of boilers may be kept for *viva voce* test. Examination where held.

X. Grant of Certificate.

41. If a candidate passes the examination the result will be notified in the Official Gazette and he shall be granted a certificate in accordance with the class in which he passed as soon as practicable after the close of the examination. Grant of certificate of competency and proficiency.

42. Certificates of competency in class I and II as a Boiler Attendant under rule 21 shall be in Forms B and C respectively appended to these rules. Form of certificat e.

43. No certificate of the first class shall be granted to the holder of a second class certificate after examination under these rules unless and until he has surrendered to the Chairman the certificate of the lower grade. Surrender of lower grade certificate.

Application for exchange certificate.

44. An application for the award of a certificate of competency as a Boiler Attendant shall be in Form A appended to these rules.

Record of duplicate certificate

45. Duplicates of all certificates granted under these rules shall be recorded in the office of the Chairman.

Identification requirement.

46. Every certificate granted under these rules shall bear a bust photograph of the holder thereof previously submitted along with his application under rule 26 and his signature or thumb impression and such other particulars as may be required for the purpose of indentification.

Grant of duplicate certificate.

47. Whenever the holder of a certificate proves to the satisfaction of the Chairman of the Board of Examiners that certificate granted to him under these rules has been lost, stolen or destroyed or mutilated without any fault on his part, he shall be granted a duplicate certificate to which by the record so kept as aforesaid, he appears to be entitled, which shall have for all purposes the same validity as the original certificate.

If on enquiry the Secretary to the Board of Examiners, is satisfied that any statement made by the applicant for the issue of a duplicate certificate is false he shall report the case to the said Board at its next meeting, and the Board may at its discretion cancel the certificate or permit the grant as aforesaid of a duplicate certificate either immediately or after such period not exceeding twelve months as the Board may think fit having regard to the circumstances of each case.

Application for duplicate certificate.

48. Application for a duplicate certificate shall be lodged with the Chairman to the Board of Examiners with a declaration sworn before a Gazetted Officer or an Honorary Magistrate stating that the certificate granted under these rules, has been lost without fault on the part of the applicant.

Invalidity of original certificate.

49. On the issue of a duplicate certificate, the original certificate shall cease to be valid, and shall if in the possession or power of the holder thereof be returned to the office of the Chairman for cancellation.

Enquiry regarding certificate holders and suspension of certificate.

50. (i) If a District Magistrate or the Chairman of the Board of Examiners has reason to believe from any cause whatsoever, that an enquiry should be made into an allegation of incompetence, drunkenness, misconduct or negligence on the part of an attendant holding a certificate

of competency under these rules, they shall either themselves make such enquiry or cause it to be made by their subordinate officers. The District Magistrate may depute a Magistrate of the first class and the Chairman of the Board of Examiners, an Inspector of Boilers duly authorised by him to hold such enquiry.

(ii) The holder of such certificate shall, on demand by the officer charged with the enquiry forthwith, place in the hands of such officer his certificate to abide by the result of such enquiry.

(iii) The proceedings shall be held in the presence of the person whose conduct forms the subject of enquiry and he shall have an opportunity of making any statement he may wish to make and of producing any evidence in his defence.

(iv) The proceedings of any such enquiry shall be forwarded by the officer conducting the enquiry, where he is not the Chairman of the Board, to the Secretary to the Board of Examiners, for consideration of the Board.

Submission of proceedings before the Board.

51. The Secretary to the Board of Examiners shall submit the proceedings sent under sub-rule (iv) of rule 50 before the Board at its next meeting and the Board of Examiners at its discretion, may allow the certificate to stand or may cancel the certificate permanently or suspend it for such period as it thinks fit.

XI Penalty.

Cognisance of offences.

52. The owner of a boiler who works or permits or causes the boiler to be worked at any time in contravention of rule 2 shall be punishable with fine which may extend to Rs. 100.

Any person in charge of a boiler or any other person who works the same or permits or causes it to be worked in contravention of rule 4, 5, 6 shall be punishable with fine which may extend to Rs. 100.

Division III—Declaration to be made by the applicant.

I do hereby declare that the statements made in Divisions I, II and III of this form are correct and true to the best of my knowledge and belief; and that the papers enumerated in Division III and submitted with this form are true and genuine documents and further that the copies of the documents submitted with this form

are true and correct. I further declare that the Statements made in Division III contain a true and correct account of the whole period of my service without exception, and I make this declaration conscientiously believing the same to be true.

Dated at this day of 19

Signed in the presence of—

Signature : .....

Designation : .....

Signature of the applicant.

Present address : .....

.....

.....

Note.—(1) Every application must be accompanied by a treasury challan showing that the fee for the examination has been paid.

(2) Two copies of a recent bust photograph of the applicant (size 2"×2¼") be accompanied with the application with applicant's signature on the back thereof.

(3) Any person making false statement for the purpose of admission to the examination renders himself liable to prosecution.

(4) Incomplete applications are liable to be rejected.

FORM A. *Registered No.....*

(*See* rules 26 and 44 of the Boiler Attendants' Rules, 1952)

INDIAN BOILERS ACT, 1923 (ACT V OF 1923).

Application for Certificate of Competency as Boiler Attendant.

DIVISION I—Name, etc., of the applicant.

Name in full	Nationality	Date of birth	Place of birth	Permanent address	Nature of Certificate	Grade of certificate applied for	Whether appeared in any previous examinations	If so, when and where
1	2	3	4	5	6	7	8	9

DIVISION II—Particulars of all previous certificates (if any) issued in India.

Number of certificate	Class of certificate	Where issued	Date of issue	If at any time suspended or cancelled, if so, state by whom	Date	Causes of suspension or cancellation
1	2	3	4	5	6	7

IV-6

16 (4)

Division III—List of Testimonials and Statement of Services.

(The testimonials to be numbered consecutively according to the number given in column 1 below)

Number of testimonials (if any)	Date of each testimonial	Name of person signing each testimonial	Address and Designation of factory or workshop where employed	Number, type and heating surface of boilers.	Capacity in which employed	Service of applicant					Initial of verifier	Remarks
						Date of commencement	Date of termination	Time employed in this service				
								Year	Month	Days	To be filled by the Board	
1	2	3	4	5	6	7	8	9	10	11	12	13
Total service												
Time served for which certificates are produced												
Time served for which no certificates are produced												

FORM B.

.....Government.

First Class Boiler Attendant Certificate of Competency

Granted under the Indian Boilers Act, V of 1923.

No.....of 195 .

Shri.....aged about..... years, at present residing at.....having satisfied the Board of Examiners appointed under the above Act of his competency to fulfil the duties of First Class Boiler Attendant is granted under the Boiler Attendance Rules, 1952, this Certificate of Competency as a First Class Boiler Attendant authorising him to have charge of a single boiler of any type or capacity, or two or more boilers in a battery or separated, the total heating surface of which does not exceed 7,500 square feet, provided that such boilers shall be situated within a radius of 75 feet in the same premises and belong to one owner.

Dated, at.....this.....day of.....195 .

Secretary to the Board of Examiners.

Chairman to the Board of Examiners.

PHOTO

DESCRIPTIVE ROLL

1	Date and place of birth ...	.....
2	Address	.....
3	Nationality and religion ...	.....
4	Height without shoes ...	.....
5	Marks of identification ...	.....
6	Left thumb impression ...	.....
7	Signature	.....

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FORM C

.....Government

Second Class Boiler Attendant Certificate of Competency.

Granted under the Indian Boilers Act, V of 1923.

No.....of 195 .

Shri.....aged about..... years, at present residing at.....having satisfied the Board of Examiners appointed under the above Act of his competency to fulfil the duties of Second Class Boiler Attendant is granted under Section 29 (*d*) of the said Act this Certificate of Competency as a Second Class Boiler Attendant authorising him to have charge of a single boiler of any type the heating surface of which does not exceed 1,500 square feet.

Dated at.....this.....day of .....195 .

Secretary to the Board of Examiners. *Chairman to the Board of Examiners.*

PHOTO

DESCRIPTIVE ROLL

1	Date and place of birth	.....
2	Address	.....
3	Nationality and religion	.....
4	Height without shoes	.....
5	Marks of identification	.....
6	Left thumb impression	.....
7	Signature	.....

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THE DRAFT ECONOMISER INSPECTION ADMINISTRATIVE RULES 1952.

CHAPTER I.

1 *Short title.*—These rules may be called the Mysore Economeser Rules.

2 *Definitions.*—In these rules unless the context otherwise requires.

(*a*) "Act" means the Indian Boilers Act, 1923 (V of 1923);

(*b*) "Section" means a section of the Act; and

(*c*) "Regulation" means a regulation of the Indian Boiler Regulations, 1950 made by the Central Boilers Board under Section 28 of the Act.

Costs and Penalties.

3 *Payments of fees, etc.*—All fees payable under these Rules or the Act shall be paid in such manner as the State Government may from time to time specify.

4 *Registers.*—(1) The Chief Inspector shall keep in his office.—

(*a*) a register of all economisers registered in the State;

(*b*) the Registration Books and Memorandum of Inspection Books in respect of all economisers booked in such register;

(*c*) a Register of appeals;

(*d*) a Register of accidents; and

(*e*) a register of registration and inspection fees received.

(2) The register maintained under clause (*a*) of sub-rule (1) shall consist of two parts. In Part I shall be entered the economisers registered in the State and in Part II shall be entered the economisers transferred from another State.

5 *Inspections at Special times.*—No examination of an economiser shall be made by an Inspector for the purpose of registering or issuing a certificate for an economiser on a Sunday or a Gazetted Public Holiday or between the hours of sunset and sunrise without the specific

orders of the Chief Inspector, in each case. In such cases an extra fee equal to the usual fee for the registration or inspection of the economiser as the case may be, shall be charged and such extra fee shall be paid to the Inspector.

6 *Attendance during hearing of appeals.*—Under orders of the Chief Inspector, Inspectors shall attend before the Chief Inspector or the Appellate Authority, during the hearing of appeals with regard to economisers under their charge.

CHAPTER II.

Procedure for Registration.

7 *Receipt of applications.*—Applications for registration shall be made under sub-section (1) of section 7 to the Inspector of the local area in which the economiser is situated and shall be accompanied by a receipt of the fee prescribed under the Regulation.

8 *Procedure on transfer of an economiser unit or part of a unit.*—Whenever an economiser is transferred from another State into the State of Mysore the owner shall, apply under clause (*b*) of section 6 to the Chief Inspector for the registration of the transfer; the economiser shall not be used until registration has been effected. No fee shall be charged for recording such transfer.

9 (*a*) *Entry of transferred economiser unit in Register.*—On receipt of the Registration and Memorandum of Inspection Books, the Chief Inspector shall enter the economiser unit under its original number in Part II of the register, kept for the purpose.

(*b*) When parts of two or more units are assembled to form one unit, the original numbers shall be cancelled and the newly built up unit shall be given a fresh number.

10 *Note of transferred and dismantled economisers.*—Whenever an economiser or part of an economiser has been transferred to another State or broken up, the fact shall be noted in the register. In the case of an economiser which has been condemned, the Registration Book and the Memorandum of Inspection Book shall contain an entry to that effect.

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CHAPTER III.

Procedure for Inspection.

11 (*a*) *Procedure at inspection: Internal inspection of economiser chamber*:—Detailed instructions for the inspection of economisers are contained in Chapter XI of the Regulations. The following general procedure at inspection should be observed:—

At a thorough inspection of an economiser, the Inspector should wherever possible have either the steel casing doors open or the brick work completely removed on the outer side of the economiser chamber to enable him to make a thorough examination of the external surfaces of the tubes. But before doing so, he should satisfy himself that proper provision has been made to isolate the economiser on the gas side as well as on the water connections of the boiler and from any other working economiser.

Should the Inspector find that the economiser has not been disconnected on the feed line or is not sufficiently sealed on the gas side or is unreasonably hot or not properly cleaned or sealed, he should decline to proceed with the inspection and report the facts to the Chief Inspector for orders under sub-section (2) of Section 14.

When an economiser chamber is of such a size or its construction is such that the Inspector cannot go inside, reasonable provision should then be made for the external examination of the principal parts. If for any reason the Inspector cannot examine it he should report the facts to the Chief Inspector for orders.

Preparation for Hydraulic Test.—The chests of all mountings subject to water pressure shall be in place and shut tight or blank flanged. The relief valve shall either be secured or removed and the chest opening blank flanged. The attachment* for the Inspector's pressure gauge and the nipple** for connecting the Inspector's test pump hose shall be in order. All caps shall be properly fitted and tightened up. The economiser shall be completely filled with water, care

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Note:—The last certificate for the economiser should be shown to the Inspector.

* Tapped $\frac{3}{4}$" Whitworth bolt and nut thread.

** Tapped 7/8" Whitworth bolt and nut thread.

being taken to allow all air to escape and, if possible, a preliminary test not exceeding the working pressure of the economiser shall be taken before the Inspector's visit to test the tightness of the joints. When an economiser is hydraulically tested for the first time, it shall be offered entirely bare, at subsequent tests, lagging or brickwork, or portions therefor, shall be removed if required by the Inspector.

(*b*) Hydraulic tests of economiser at subsequent examinations shall except when the Inspector expressly requires otherwise, be made after the inspection. The test pressure to be applied to economisers at such subsequent examinations shall be from one and a quarter to one and a half times the working pressure of the economiser.

12. External inspection of Economiser.—After the economiser has been cleaned the Inspector shall make a thorough examination so far as its construction permits. The external condition of the tubes should be carefully noted for wasting especially at the feed inlet end and all accessible tubes should be calipered. The internal surfaces of cast iron tubes should be closely observed for graphitic wastings as far as it is possible and in the event of any failure these should be broken up for scrutiny so that the general internal condition of the other tubes may be estimated.

(*b*) Where tubes or other parts are wasted, the strength should be re-calculated;

(*c*) The scraper gear should be examined to note if any parts are missing, if the length of travel is adequate and if the scrapers are correctly adjusted.

(*d*) All cap bolts are to be inspected, also the condition and position of the dampers and baffler.

* (*e*) The record of each inspection and calculations will be entered in the Memorandum of Inspection Book.

13. *Casual Inspection.*—The Inspector shall note if the economiser is working satisfactorily and especially in accordance with Regulation 531 of the Indian Boiler Regulations, 1950. Particular note should be taken of the water temperature to see that the temperature of hot

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* When an economiser chamber is of such a size or its construction is such that the Inspector cannot go inside, reasonable provision should then be made for the external examination of the principal parts. If for any reason the Inspector cannot examine it he should report the facts to the Chief Inspector for orders.

water in the economiser is 20° to 50° lower than the boiler steam temperature.

14. *Proposals for reduction of pressure.*—When the Inspector decides that an economiser in one or more of its parts is no longer fit for the pressure approved for it he should, without delay, report his proposals for reducing the pressure to the Chief Inspector.

15. *Repairs to Economisers.*—(*a*) No pressure parts in a cast iron economiser shall be permitted to be repaired by welding.

(*b*) Castings shall not be repaired or welded without the specific sanction of the Inspecting Officer. If required, the castings shall be suitably re-heat-treated to remove internal stresses. Should a defect impair the strength of the casting, repair by welding or otherwise shall not be permitted.

16. *Entries in Memorandum of Inspection Books.*—An Inspector shall, after an inspection, make the necessary entries in the Memorandum of Inspection Book for the economiser and submit the book to the Chief Inspector. Inspection notes should briefly state:—

(*a*) the extent which economisers were cleared of brick-work, lagging or concealing parts;

(*b*) the general condition of the economiser; and

(*c*) parts requiring attention or repair and if special preparation is required at the next inspection.

Inspectors should also note in the Memorandum of Inspection Book all casual visits for inspection of feed pipes, visits for inspection of repair, inquiry into accidents and other like matters.

17. *Entries in certificates.*—In addition to the entries required to be made under Regulation 530 in a certificate for an economiser, the Inspector should state in the remarks column his requirements, if any, with regard to hydraulic test, removal of lagging, brickwork or other concealing parts for the next inspection to enable the owner to have the same properly prepared at that time. He should also state in the same place his requirements regarding the repair or renewal of any part that may be considered fit only for the period of the certificate.

In the repairs column, should be entered the year of repair and description of repair effected. Only important repairs should be noted.

18. *Engraving of registry number.*—Paper slips of the proper size bearing the registry number allotted for the economiser will be supplied by the Chief Inspector. The engraving of the registry number should be made as prescribed in Regulation No. 534.

19. *Arranging for Inspections.*—In arranging for inspections and hydraulic tests ample notice of not less than 30 days should be given to the owner. The notice required by sub-section (2) of Section 7 and sub-section (4) of Section 8 shall be sent in Form E.

20. *Issue of Certificate and provisional Order.*—In cases which the Inspector is empowered to issue a certificate under Section 8 without further reference, the certificate should ordinarily be issued within 48 hours of the completion of the inspection. Where he proposes to issue a provisional order pending the issue or refusal of the certificate, the Inspector must satisfy himself that the economiser is fit to be worked at the maximum pressure and for the period entered in the provisional order. The fact of issue of a provisional order must be reported immediately to the Chief Inspector.

21. *Forms of provisional Orders and Certificates.*—Provisional Orders and Certificates are prescribed in Form X and XI, respectively, of the regulations.

The period specified in any provisional order or certificate shall begin on the day on which the enabling thorough inspection or hydraulic test is completed. Where a certificate supersedes a provisional order during the period of its currency the period of the certificate shall be retrospective and shall begin from the same date as that of the provisional order.

22. *Duplicate Certificate.*—A duplicate of any certificate granted under Section 7 or Section 8 which for the time being in force shall be granted by the Chief Inspector on the application of the owner of the economiser if the Chief Inspector is satisfied that the duplicate is required for a *bona fide* purpose and the fee prescribed under Rule 28 is paid.

23. (*a*) *Registration Fees.*—Fees for registration of economisers are prescribed in Regulation 533 of the Regulations.

(*b*) *Fees for Inspection.*—Fees for inspection shall be calculated on the basis of economiser rating as shown below:—

For Economiser rating not exceeding			500	... 40
For Economiser rating exceeding	500	but not exceeding	1,000	,, 50
Do	1,000	do	1,500	60
Do	1,500	do	2,000	70
Do	2,000	do	2,500	80
Do	2,500	do	3,000	90
Do	3,000	do	3,500	100
Do	3,500	do	4,000	110
Do	4,000	do	4,500	120
Do	4,500	do	5,000	130
Do	5,000	do	...	140

Provided that when any owner is willing to accept a renewed certificate for less than 24 months in order to approximate the date of annual inspection to the date on which other economisers in the locality are inspected, a certificate for such periods being less than 24 months as may be necessary for such approximation of dates may be granted at a reduced fee to be calculated at one-twenty-fourth of the ordinary fee for each full month, fraction of a month not being reckoned.

24. *Fee to cover inspection and test.*—A fee paid for the inspection of an economiser shall cover thorough inspection and hydraulic test subject to the provision of sub-section (2) of Section 14.

25. An extra fee may be levied for re-inspection in any case where the inspection of an economiser is begun but owing to the fault or neglect of the person in charge is not completed within a period of six months from the date of commencement of inspection provided that no extra fee shall be levied except with the sanction of the Chief Inspector.

26. *Special fee for inspections out of Session.*—For inspections carried out on application within thirty days of the expiry of a certificate, no travelling and halting charges of the Inspector and staff shall be leviable. In cases where the owner requires the inspection at a date earlier than thirty days from the expiry of a certificate, the Chief Inspector may in addition to the inspection fee, charge the travelling and halting charges from the owner of the economiser. If an owner applies for inspection after the expiry of his certificate shall be liable to pay the

travelling allowance and halting allowance of the Inspector at the discretion of the Chief Inspector.

If the inspection is carried out at the request of the owner, at a time other than the specified one to suit the convenience of the owner, the travelling charges of the Inspector shall be realised from the owner.

27. *Fee for copy of registration books.*—For each copy Rs. 5.

28. *Duplicate certificate fees.*—Fees for duplicate certificates under Rule 22—Rs. 3.

29. *Refund of fees.*—Fee paid in excess and fee paid for an inspection which for any reason not due to any fault or omission of the owner or person in charge of the economiser has not been made, shall be refunded or adjusted if applied for within one year from the date of payment.

CHAPTER IV.

ACCIDENTS.

30. *Investigation of accidents.*—On the receipt of a report of an accident to an economiser or feed-pipe under Section 18, the Inspector shall with the least possible delay, proceed to the place to investigate the accident. If the report is received by the Chief Inspector he should forward it at once to the Inspector within whose jurisdiction the accident had occurred for necessary action.

31. *Procedure during inquiry.*—The Inspector at his inquiry shall make a careful examination of the damaged parts, and shall take such measurements and make such sketches for the purpose of his report, as he may deem necessary. He shall inquire into the circumstances attending the accident and note the time of its occurrence, its nature and extent, the injury caused to persons and the damage done to property. The report should be in Form C and should be sent forthwith to the Chief Inspector. If the Chief Inspector considers that the investigation has been sufficient, he will record the facts in the register of accidents and enter a brief record of the accident in the Registration Book a copy being made in the Memorandum of Inspection Book. If, however, the accident is of a serious nature and in all cases in which an explosion has occurred, the Chief Inspector shall, after receipt of the Inspector's report, proceed to investigate the accident personally.

32. *Power to hold inquiry in writing.*—Inspectors are authorised to take the written statements of witnesses and all persons immediately concerned with the accident. In order to comply with the provisions of sub-section (2) of the Section 18, the Inspector shall present to the owner or person in charge of the economiser a series of written quotations on all points that are natural to the enquiry.

33. *Use of economiser after accident.*—The Inspector shall decide whether the use of the economiser can be permitted at the same or at a lower pressure without repairs or pending the completion of any repairs or alterations that he may order. In no case shall he issue a provisional order or renewal certificate, until his orders have been carried out.

34. *Reference in Annual Report.*—A brief account of all accidents, their causes and remedial measures taken shall be included in the Chief Inspector's Annual Report.

35. *Unreported accidents.*—If in the course of an inspection or at any other time, the Inspector discovers damage which comes within the definition of an accident, but which has not been reported he should report the facts at once to the Chief Inspector for action.

CHAPTER V.

APPEALS.

36. *Filing of appeals.*—Every appeal shall be made in writing either in English or in Kannada.

37. *Presentation of appeal.*—An appeal may be presented either personally or sent by registered post to the Chief Inspector.

38. *Form of appeal.*—The appeal shall be accompanied by the original order, notice or report appealed against, or by a certified copy thereof, or where no such order, notice or report has been made in writing, by a clear statement of the facts appealed against, the grounds of appeal and section under which the appeal is made.

39. *Fixing date for hearing.*—On receipt of an appeal, the Chief Inspector shall, if the appeal is to be heard by himself, at once fix a date for hearing the appeal and if it is to be heard by the appellate authority, obtain a date for the hearing of the appeal from that authority.

40. *Procedure before hearing.*—When the date for hearing has been fixed, the Chief Inspector shall at once issue a notice to the appellant stating the date for hearing and informing him that if he wishes to be heard in support of the appeal or to produce evidence he must be present either in person or by authorised agent with his evidence on the date fixed. The notice shall be sent by registered post to such address as is entered in the petition of appeal.

41. *Presence of Inspector.*—In an appeal to the Chief Inspector, he shall decide whether the presence of the Inspector is necessary and shall issue orders, accordingly.

42. *Attendance of Witnesses* — The appellate authority shall have power to secure the attendance of witnesses and to make local inquiries under the provisions of the Code of Civil Procedure, 19 of (Act 5 of 1908).

43. *Ex-parte Decisions.*—In any appeal, if the appellant is not present on the date fixed, the appeal may be decided in his absence.

44. *Constitution of Appellate Authority.*—(1) The Appellate Authority shall consist of a Chairman, and three Assessors selected in each case from among the panel specified in Rule 45.

(2) The Chairman shall be a person who is or has exercised the powers of a District Judge or a District Magistrate.

(3) The Chairman shall hold office for such period as the State Government may specify in this behalf.

45. *Panel of Assessors.*—The State Government shall constitute a panel of Assessors who shall be fully qualified Mechanical Engineers.

46, *Remuneration of Assessors,*—An Assessor when selected on the appellate authority shall be paid—

(*a*) such fees as the State Government may from time to time, determine; and

(*b*) the travelling expenses actually incurred by him for attending an expiry under these rules.

47. *Attendance of Assessors.*—Where a date for an appeal before the Appellate Authority has been fixed, the Chief Inspector shall under the orders of the Chairman of the Appellate Authority arrange for the attendance of

three members of the panel of Assessors to act as Assessors.

48. *Costs in Appeals.*—(1) Where an appeal is dismissed the Appellate Authority may fix the costs of the appeal which shall be payable by the appellant.

(2) In any appeal where a local inspection is required the appellant shall deposit in advance the full costs of such inspection as determined by the Chairman of the Appellate Authority.

FORM A—*concld.*

.....Economiser Inspection Department.

Register of Economisers

7 (Rules 4, 9 and 10)

Registry No.	Type of Economiser	Economiser Rating	Name of Manufacturer	Year and place of construction	Date of Registration	Name of owner	Place where in use	Remarks (Transfers, etc.)
1	2	3	4	5	6	7	8	9

FORM B.

INDIAN BOILERS ACT, 1923 (ACT V OF 1923).

Notice for Examination of Economiser under Sections 7 and 8

No. ..... of 195 .

Boiler Inspection Officer,

Dated ....., the .....195 .

To

.....

.....

.....

Gentlemen/Sir,

In reply to your application dated ..... you are hereby informed that Economiser Registry No. ....., at the above-named premises will be $\frac{\text{thoroughly examined}}{\text{Hydraulically tested}}$ by the Government Inspector on the ..... To enable the examination to be made, you are bound—

(*a*) to afford to the Inspector all reasonable facilities for the examination and all such information as may reasonably be required of you;

(*b*) to have the Economiser properly prepared and ready for examination in the prescribed manner; and

(*c*) in the case of an application for the registration of an economiser to provide such drawings, specifications, certificates and other particulars as may be prescribed. Voucher No. .....in acknowledgment of $\frac{\text{Bank}}{\text{Treasury}}$ Receipt No. .....for Rs..... accompanied.

Yours faithfully,

Chief Inspector of Boilers, ...State.

(*See* below for preparation required).

PREPARATION FOR EXAMINATION.

(*a*) PREPARATION FOR INSPECTION.

At each inspection the economiser shall be emptied and thoroughly cleaned internally and externally in the flues. All mountings shall be opened up and caps removed to permit.....adequate inspection.

Provision shall, if required by the Inspector, be made for the removal of casing or brickwork or other concealing part and for drilling of headers and tubes and for verifying the pressure gauge and relief valve dimensions and weights. All tubes, headers and flues-ways shall be swept clean.

Proper provision shall be made to isolate the economiser on the gas side as well as on the water connections of the boiler and from any other working economiser.

(*b*) PREPARATION FOR HYDRAULIC TEST.

The chest of all mountings subject to water pressure shall be in place and shut tight or blank flanged. The relief valve shall either be secured or removed and the chest opening blank flanged. The attachment* for the Inspector's pressure gauge and the nipple† for connecting the Inspector's test pump hose shall be in order. All caps shall be properly fitted and tightened up. The economiser shall be completely filled with water, care being taken to allow all air to escape and, if possible, a preliminary test not exceeding the working pressure of the economiser shall be taken before the Inspector's visit to test the tightness of the joints. When an economiser is hydraulically tested for the first time, it shall be offered entirely bare, at subsequent tests, lagging or brickwork, or portions thereof, shall be removed if required by the Inspector.

Preparation now required (*a*) and (*b*).

NOTE.—The last certificate for the economiser should be shown to the Inspector.
*Tapped ¾" Whitworth Bolt and Nut thread.
†Tapped 7/8" Whitworth Bolt and Nut thread.

FORM C.

Report in to the investigation of the Accident to Economiser No. .....

To

The Chief Inspector of Boilers,

SIR,

In accordance with instructions I have held a preliminary inquiry into the accident and the circumstances attending it, to Economiser No. ....., and now make the following Report:—

(1) Date and place of Accident.
(*a*) Date of investigation.
(2) Names and addresses of Owners.
(3) Persons killed or injured.
(4) Names of makers of Economiser or Steam Pipe.
(5) Age of Economiser or Steam Pipe.
(6) Particulars of previous repairs with dates.
(7) The Economiser was last inspected on.....by.....
(8) Nature of Accident.
(9) Cause of Accident.
(10) General Remarks.

Date ..... *Inspector of Boilers.*

REMARKS by the Chief Inspector of Boilers.

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